

SEQUENCE LISTING

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Nair, Shrikumar  
Kolodziej, Andrew  
Beltzer, James P

<120> Binding Moieties for Fibrin

<130> DYX-010.1 PCT seq list

<140>  
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<150> US 60/146,425  
<151> 1999-07-29

<160> 72

<170> PatentIn Ver. 2.1

<210> 1  
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<220>  
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11-mer microprotein analogues

<220>  
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<222> (1)  
<223> X1 is Arg, Asp, His, Leu or Phe;

<220>  
<221> VARIANT  
<222> (2)  
<223> X2 is Ala, Asp, Gly, Pro or Ser;

<220>  
<221> VARIANT  
<222> (4)  
<223> X4 is Ala, Glu, Phe, Gly, Ile, Lys, Leu, Met, Arg,  
thr, Val, Tyr, Asn, Asp, Gln, His, Ser or Trp;

<220>  
<221> VARIANT

<222> (5)  
<223> X5 is Ala, tyr, Phe or Ser;

<220>  
<221> VARIANT  
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<223> X7 is Gly, Ala or D-Ala;

<220>  
<221> VARIANT  
<222> (8)  
<223> X8 is Thr, Ser or Val;

<220>  
<221> VARIANT  
<222> (10)  
<223> X10 is His, Leu or Phe;

<220>  
<221> VARIANT  
<222> (11)  
<223> X11 is Arg, Asp or His

<400> 1  
Xaa Xaa Cys Xaa Xaa Tyr Xaa Xaa Cys Xaa Xaa  
1 5 10

<210> 2  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: stable binding  
loop of 7 amino acids

<220>  
<221> VARIANT  
<222> (2)  
<223> X2 is Ala, Glu, Phe, Gly, Ile, Lys, Leu, Met, Arg,  
thr, Val, Tyr, Asn, Asp, Gln, His or Ser;

<220>  
<221> VARIANT  
<222> (3)  
<223> X3 is Ser, Phe, Ala or Tyr;

<220>  
<221> VARIANT  
<222> (5)  
<223> X5 is Gly, Ala or D-Ala;

<220>  
<221> VARIANT  
<222> (6)  
<223> X6 is Thr, Ser or Val

<400> 2  
Cys Xaa Xaa Tyr Xaa Xaa Cys  
1 5

<210> 3  
<211> 7  
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<220>  
<223> Description of Artificial Sequence: stable binding  
loop of 7 amino acids

<220>  
<221> VARIANT  
<222> (2)  
<223> X2 is Asn, Asp, Gln, His, Ser or Trp

<400> 3  
Cys Xaa Tyr Tyr Gly Thr Cys  
1 5

<210> 4  
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<220>  
<223> Description of Artificial Sequence: recurrent  
motif among synthetic fibrin binding peptides

<400> 4  
Tyr Tyr Gly Thr  
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<210> 5  
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<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 5  
Arg Ser Cys Asn Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 6  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 6  
His Asp Cys Gln Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 7  
<211> 11  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 7  
Phe Ala Cys His Tyr Tyr Gly Thr Cys Leu His  
1 5 10

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fibrin binding peptide

<400> 8

Arg Pro Cys Asp Tyr Tyr Gly Thr Cys Phe Asp  
1 5 10

<210> 9

<211> 11

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<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 9

Leu Pro Cys Asp Tyr Tyr Gly Thr Cys Leu Asp  
1 5 10

<210> 10

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 10

Phe Ser Cys Trp Tyr Ser Leu His Cys His Arg  
1 5 10

<210> 11

<211> 11

<212> PRT

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<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 11

Asp Pro Cys Ser Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 12  
<211> 11  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 12  
Leu Pro Cys Ser Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 13  
<211> 11  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 13  
Leu Ser Cys Asp Tyr Tyr Gly Thr Cys Leu Arg  
1 5 10

<210> 14  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 14  
Leu Ala Cys His Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 15  
<211> 11  
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<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 15

Asp Gly Cys His Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 16

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 16

Arg Pro Cys Asn Tyr Tyr Gly Thr Cys Leu His  
1 5 10

<210> 17

<211> 10

<212> PRT

<213> Artificial Sequence

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fibrin binding peptide

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<223> X3 is Asp or Asn;

<220>

<221> VARIANT

<222> (6)

<223> X6 is Gly or Tyr;

<220>

<221> VARIANT

<222> (7)

<223> X7 is His or Val;

<220>  
<221> VARIANT  
<222> (8)  
<223> X8 is Pro or Trp;

<220>  
<221> VARIANT  
<222> (9)  
<223> X9 is Trp or Tyr

<400> 17  
Cys Tyr Xaa Ser Tyr Xaa Xaa Xaa Xaa Cys  
1 5 10

<210> 18  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 18  
Asn His Gly Cys Tyr Asn Ser Tyr Gly Val Pro Tyr Cys Asp Tyr Ser  
1 5 10 15

<210> 19  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: stable binding  
loop of six amino acids

<400> 19  
Arg Phe Leu Cys Tyr Asp Ser Tyr Tyr His Thr Thr Cys Ser His His  
1 5 10 15

<210> 20  
<211> 6  
<212> PRT  
<213> Artificial Sequence



<220>

<221> VARIANT

<222> (4)

<223> X4 is Asp or Gly

<220>

<223> Description of Artificial Sequence: stable binding  
loop of six amino acids

<400> 20

Cys Pro Tyr Xaa Leu Cys

1

5

<210> 21

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 21

Trp Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu

1

5

10

<210> 22

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 22

Gln Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln

1

5

10

<210> 23

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 23

Gly Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 24

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 24

Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 25

His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 26

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 26

Phe His Cys Pro Tyr Asp Leu Cys His Ile  
1 5 10

<210> 27  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 27  
Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln  
1 5 10

<210> 28  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 28  
Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln  
1 5 10

<210> 29  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 29  
Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile  
1 5 10

<210> 30  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: phage display  
library template sequence

<220>

<221> VARIANT

<222> (1)..(2)

<223> X1 and X2 can be various amino acids but not Cys;

<220>

<221> VARIANT

<222> (4)..(8)

<223> X4, X5, X6, X7, X8 can be various amino acids but  
not Cys;

<220>

<221> VARIANT

<222> (10)..(11)

<223> X10 and X11 can be various amino acids but not Cys

<400> 30

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
1 5 10

<210> 31

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptides

<220>

<221> VARIANT

<222> (1)

<223> X1 is Arg, Leu or Phe;

<220>

<221> VARIANT

<222> (2)

<223> X2 is Pro or Ala;

<220>

<221> VARIANT

<222> (4)

<223> X4 is Asp, His, Asn or Ser

<220>

<221> VARIANT

<222> (10)

<223> X10 is Leu or Phe;

<220>

<221> VARIANT

<222> (11)

<223> X11 is Asp or His

<400> 31

Xaa Xaa Cys Xaa Tyr Tyr Gly Thr Cys Xaa Xaa

1

5

10

<210> 32

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: truncated  
synthetic fibrin binding peptide

<400> 32

Pro Cys Asp Tyr Tyr Gly Thr Cys Leu

1

5

<210> 33

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: truncated  
synthetic fibrin binding peptide

<400> 33

Cys Asp Tyr Tyr Gly Thr Cys Leu

1

5

<210> 34

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: truncated  
synthetic fibrin binding peptide

<400> 34

Cys Asp Tyr Tyr Gly Thr Cys

1

5

<210> 35

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: truncated  
synthetic fibrin binding peptide

<400> 35

Asp Tyr Tyr Gly Thr

1

5

<210> 36

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variegated  
template region for phage display library TN10-9

<220>

<221> VARIANT

<222> (1)..(3)

<223> X1, X2, X3 can be various amino acids but not Cys;

<220>

<221> VARIANT

<222> (5)..(12)

<223> X5, X6, X7, X8, X9, X10, X11, X12 can be various  
amino acids but not Cys;

<220>

<221> VARIANT

<222> (14)..(16)

<223> X14, X15, X16 can be various amino acids but not  
Cys

<400> 36

Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa
1				5				10					15		

<210> 37

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: variegated  
template region of phage display library TN6-6

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<222> (1)..(3)

<223> X1, X2, X3 can be various amino acids but not Cys;

<220>

<221> VARIANT

<222> (5)..(8)

<223> X5, X6, X7, X8 can be various amino acids but not  
Cys;

<220>

<221> VARIANT

<222> (10)..(12)

<223> X10, X11, X12 can be various amino acids but not  
Cys

<400> 37

Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa
1				5				10			

<210> 38

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linearized  
fibrin binding peptide

<400> 38

Leu Pro Ser Asp Tyr Tyr Gly Thr Ser Leu Asp  
1 5 10

<210> 39

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linearized  
fibrin binding peptide

<220>

<221> MOD\_RES

<222> (3)

<223> X3 is penicillamine

<220>

<221> MOD\_RES

<222> (9)

<223> X9 is penicillamine

<400> 39

Leu Pro Xaa Asp Tyr Tyr Gly Thr Xaa Leu Asp  
1 5 10

<210> 40

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: substituted  
fibrin binding peptide

<220>

<221> MOD\_RES

<222> (7)

<223> X7 is D-Alanine

<400> 40

Leu Pro Cys Asp Tyr Tyr Xaa Thr Cys Leu Asp  
1 5 10



<210> 41  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
alanine-substituted fibrin binding peptide

<400> 41  
Leu Ala Cys Asp Tyr Tyr Gly Thr Cys Leu Asp  
1 5 10

<210> 42  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
alanine-substituted synthetic fibrin binding  
peptide

<400> 42  
Leu Pro Cys Ala Tyr Tyr Gly Thr Cys Leu Asp  
1 5 10

<210> 43  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
alanine-substituted synthetic fibrin binding  
peptide

<400> 43  
Leu Pro Cys Asp Ala Tyr Gly Thr Cys Leu Asp  
1 5 10

<210> 44  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

alanine-substituted synthetic fibrin binding  
peptide

<400> 44

Leu Pro Cys Asp Tyr Ala Gly Thr Cys Leu Asp

1

5

10

<210> 45

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

alanine-substituted synthetic fibrin binding  
peptide

<400> 45

Leu Pro Cys Asp Tyr Tyr Ala Thr Cys Leu Asp

1

5

10

<210> 46

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

alanine-substituted synthetic fibrin binding  
peptide

<400> 46

Leu Pro Cys Asp Tyr Tyr Gly Ala Cys Leu Asp

1

5

10

.

<210> 47

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

alanine-substituted synthetic fibrin binding  
peptide

<400> 47

Leu Pro Cys Asp Tyr Tyr Gly Thr Cys Ala Asp  
1 5 10

<210> 48

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 48

Leu Pro Cys Asp Tyr Tyr Gly Ser Cys Leu Asp  
1 5 10

<210> 49

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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fibrin binding peptide

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<222> (8)

<223> X= Dpr

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Leu Pro Cys Asp Tyr Tyr Gly Xaa Cys Leu Asp  
1 5 10

<210> 50

<211> 11

<212> PRT

<213> Artificial Sequence

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fibrin binding peptide

<220>

<221> MOD\_RES

<222> (8)

<223> X = L-homoserine

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Leu Pro Cys Asp Tyr Tyr Gly Xaa Cys Leu Asp  
1 5 10

<210> 51

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 51

Leu Pro Cys Asp Tyr Tyr Gly Val Cys Leu Asp  
1 5 10

<210> 52

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 52

Leu Pro Cys Asp Tyr Phe Gly Thr Cys Leu Asp  
1 5 10

<210> 53

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>

<221> MOD\_RES

<222> (8)

<223> X = naphthyl

<400> 53

Leu Pro Cys Asp Tyr Xaa Gly Thr Cys Leu Asp

1

5

10

<210> 54

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>

<221> MOD\_RES

<222> (8)

<223> X = naphthyl

<400> 54

Leu Pro Cys Asp Xaa Gly Thr Cys Leu Asp

1

5

10

<210> 55

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>

<221> MOD\_RES

<222> (8)

<223> X = biphenyl

<400> 55

Leu Pro Cys Asp Tyr Xaa Gly Thr Cys Leu Asp

1

5

10

<210> 56  
<211> 11  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>  
<221> MOD\_RES  
<222> (8)  
<223> X = tetrahydroisoquinoline-3-carboxylic acid

<400> 56  
Leu Pro Cys Asp Tyr Xaa Gly Thr Cys Leu Asp  
1 5 10

<210> 57  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 57  
Gly Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 58  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 58  
Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 59  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 59  
His Cys Pro Tyr Asp Leu Cys His Ile Leu  
1 5 10

<210> 60  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 60  
Phe His Cys Pro Tyr Asp Leu Cys His Ile  
1 5 10

<210> 61  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 61  
Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln  
1 5 10

<210> 62  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 62

Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln  
1 5 10

<210> 63

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 63

Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile  
1 5 10

<210> 64

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Description of  
Artificial Sequenc: sequence motif of fibrin  
binding peptides

<220>

<221> VARIANT

<222> (4)

<223> X = Ser, Thr or Val

<400> 64

Thr Thr Gly Xaa  
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<210> 65

<211> 16

<212> PRT

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>  
<221> VARIANT  
<222> (1)  
<223> X1 is Asn or Arg;

<220>  
<221> VARIANT  
<222> (2)  
<223> X2 is His or Phe;

<220>  
<221> VARIANT  
<222> (3)  
<223> X3 is Gly or Leu;

<220>  
<221> VARIANT  
<222> (6)  
<223> X6 is Asn or Asp;

<220>  
<221> VARIANT  
<222> (9)  
<223> X9 is Gly or Tyr;

<220>  
<221> VARIANT  
<222> (10)  
<223> X10 is Val or His;

<220>  
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<222> (11)  
<223> X11 is Pro or Trp;

<220>  
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<222> (12)  
<223> X12 is Tyr or Trp;

<220>  
<221> VARIANT  
<222> (14)  
<223> X14 is Asp or Ser;

<220>  
<221> VARIANT  
<222> (15)  
<223> X15 is His or Tyr;

<220>  
<221> VARIANT  
<222> (16)  
<223> X16 is His or Ser

<400> 65  
Xaa Xaa Xaa Cys Tyr Xaa Ser Tyr Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
1 5 10 15

<210> 66  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>  
<221> VARIANT  
<222> (1)  
<223> X1 is Trp, Phe, His or Tyr;

<220>  
<221> VARIANT  
<222> (2)  
<223> X2 is His, Asp or Glu;

<220>  
<221> VARIANT  
<222> (6)  
<223> X6 is Asp, Gly or Ala;

<220>  
<221> VARIANT  
<222> (9)  
<223> X9 is His, Phe, Tyr or Trp;

<220>  
<221> VARIANT  
<222> (10)  
<223> X10 is Ile, Leu or Val;

<220>

<221> VARIANT

<222> (11)

<223> X11 is Asn, Gln, Ile, Leu or Val

<400> 66

Xaa Xaa Cys Pro Tyr Xaa Leu Cys Xaa Xaa Xaa

1

5

10

<210> 67

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 67

Leu Pro Cys Asp Tyr Tyr Gly Thr Cys Leu Asp

1

5

10

<210> 68

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<400> 68

Gly Trp Phe His Cys Pro Tyr Asp Leu Cys His Ile Leu

1

5

10

<210> 69

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

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Gly Gln Trp Glu Cys Pro Tyr Gly Leu Cys Trp Ile Gln  
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<210> 70

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

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Gly Leu Pro Cys Asp Tyr Tyr Gly Thr Cys Leu Asp  
1 5 10

<210> 71

<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

<220>

<221> VARIANT

<222> (1)..(2)

<223> X1, X2 can be any amino acid

<220>

<221> VARIANT

<222> (4)..(5)

<223> X4, X5 can be any amino acid

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<221> VARIANT

<222> (7)

<223> X7 can be any amino acid

<220>

<221> VARIANT

<222> (8)

<223> X8 is Thr, Ser or Val

<220>

<221> VARIANT

<222> (10)..(11)

<223> X10, X11 can be any amino acid

<400> 71

Xaa Xaa Cys Xaa Xaa Tyr Xaa Xaa Cys Xaa Xaa  
1 5 10

<210> 72

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
fibrin binding peptide

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<221> VARIANT

<222> (2)..(3)

<223> X2, X3 can be any amino acid

<220>

<221> VARIANT

<222> (5)

<223> X5 can be any amino acid

<220>

<221> VARIANT

<222> (6)

<223> X6 is Thr, Ser or Val

<400> 72

Cys Xaa Xaa Tyr Xaa Xaa Cys  
1 5